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RESULTS

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A Photographic Record of Results of Tests with Fer- tilizers in New York State



PUBLISHED BY

G E R M A N K A L I W O R K S

93 Nassau Street . . . NEW YORK CITY, N. Y.

ATLANTA, GA. CHICAGO, ILL. HAVANA, CUBA

WE present in the following pages careful and accurate reports of twenty tests with different fertilizers in eleven Counties of New York State. It may be explained that eight of the tests were made with potatoes, which next to hay, is the most important crop of the State. The remaining twelve experiments cover ten different crops commonly grown.

The experiments, results of which are here reported, were conducted according to the following simple plan, which every farmer may arrange for himself:

Plot No. 1 (Check Plot)

No fertilizer used.

Plot No. 2

Complete fertilizer supplying Potash, Phosphoric Acid and Nitrogen used on this plot.

Plot No. 3

Same amount of Phosphoric Acid and Nitrogen as on Plot No. 2, but no Potash applied to this plot.

Each plot contains the same area, usually $\frac{1}{4}$ or $\frac{1}{3}$ acre.

The object of these practical experiments was to find out : (1) How much increase would be obtained over the unfertilized plot by the use of a complete fertilizer containing Potash, Phosphoric Acid and Nitrogen. (2) How much of the increase was due to Potash alone.

The results in the first case are shown by comparing yields from Plots 1 and 2, and in the second case, by comparing Plots 2 and 3.

The photographs which follow illustrate the relative yields obtained or show the growth on the plots during the progress of these actual field tests, the records of which should be read and carefully studied by every farmer, in order that he may profit by the experience of others.

For further information address the

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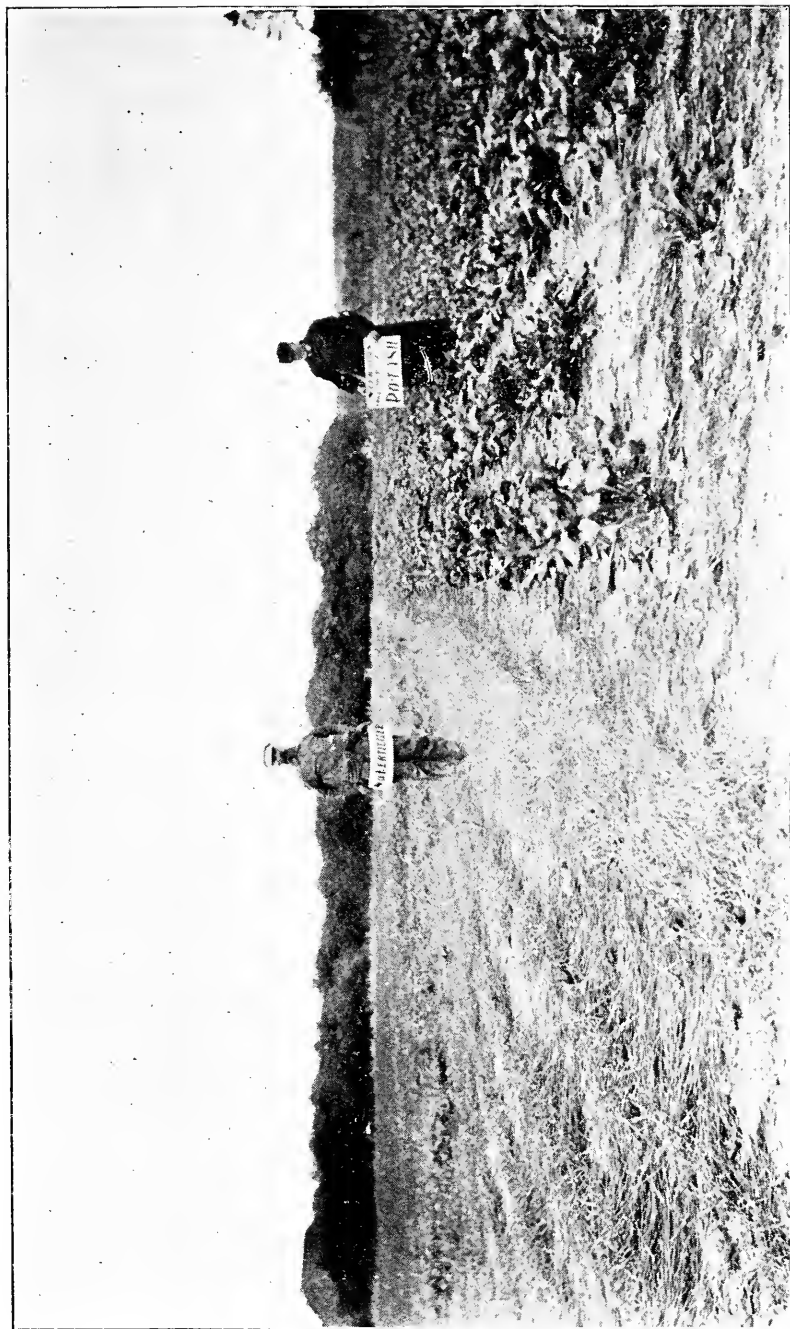
New York, N. Y.

TEST ON MANGELS (BEETS) BY C. H. WALL, SAVONA, N. Y.



Plot No. 1	Plot No. 2	Plot No. 3
No Fertilizer	Complete Fertilizer (With Potash)	Incomplete Fertilizer (No Potash)
Yield: 22,848 Pounds	Yield: 28,112 Pounds	Yield: 24,956 Pounds
Increase from \$4.00 worth of Sulphate of Potash.....	.....3,156 pounds Mangels.	
A good Fertilizer for Mangels and other root crops should contain at least 9 or 10% of Potash.		

TEST ON SUGAR BEETS BY A. G. REEVE, ANGOLA, N. Y.



Unfertilized—Crop was a Failure

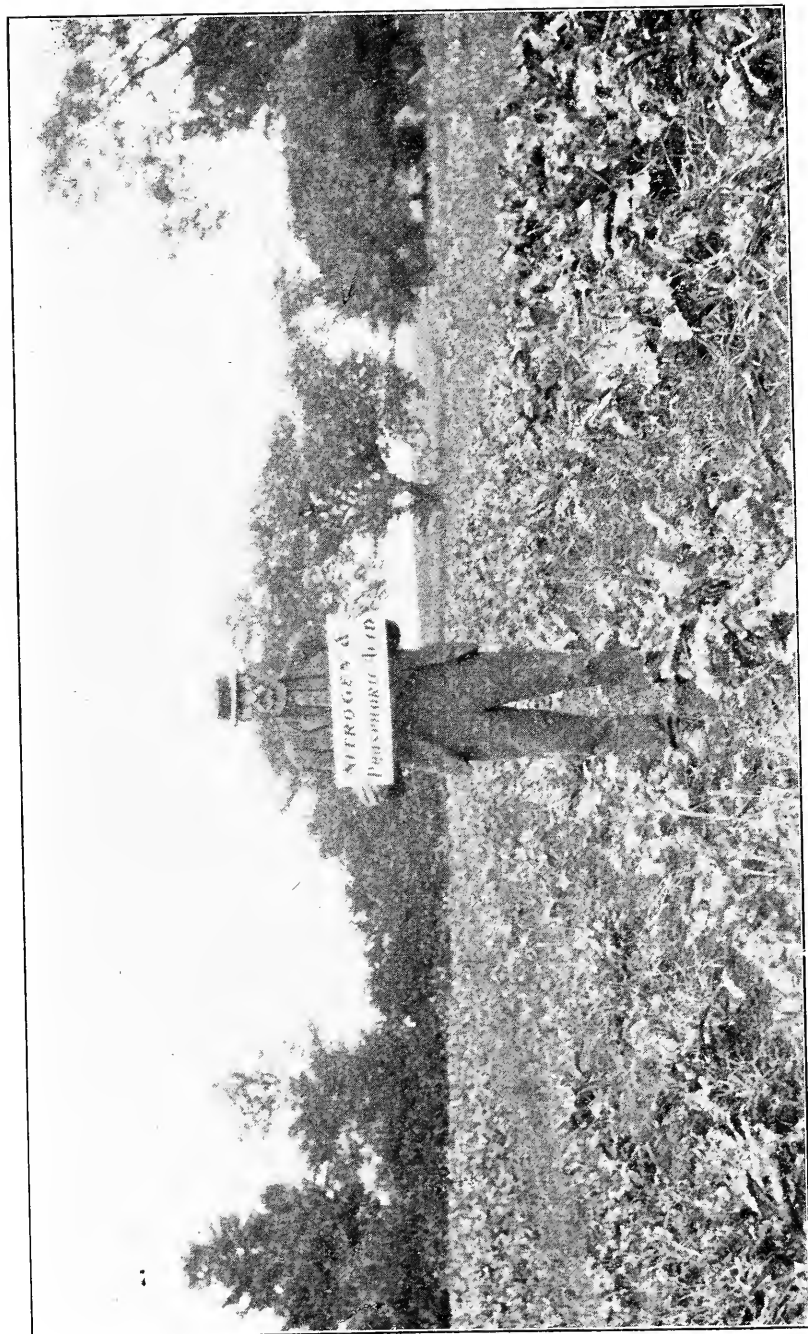
Completely Fertilized (With Potash)—Yield 12,000 pounds

Yield on Plot Incompletely Fertilized (Without Potash) 9,600 pounds

Increase from \$4.00 worth of potash.....2,400 pounds Beets, containing 16% sugar.

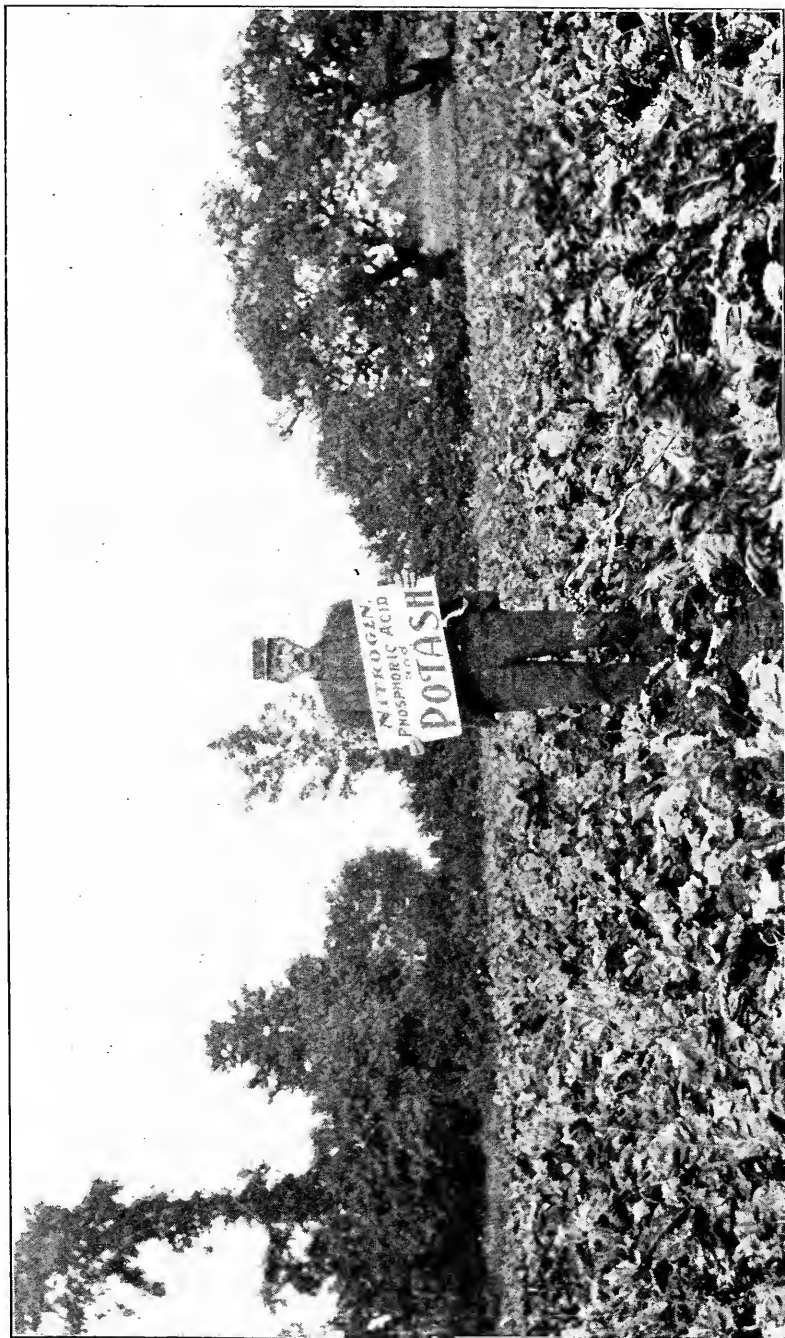
A satisfactory fertilizer for Sugar Beets should contain at least 10% Potash.

TEST ON SUGAR BEETS BY J. W. WIGGINS, WARSAW, N. Y.



Plot No. 3. Incomplete Fertilizer (No. Potash). Yield: 6,690 pounds.

TEST ON SUGAR BEETS BY J. W. WIGGINS, WARSAW, N. Y.



Plot No. 2. Complete fertilizer with Potash. Yield: 10,920 pounds
 Increase obtained with \$3.00 worth of Sulphate of Potash 4,230 pounds Beets. Value: \$9.00.
A satisfactory fertilizer for Beets will contain at least 10% Potash.

TEST ON POTATOES BY H. H. LYON, Bainbridge, N. Y.



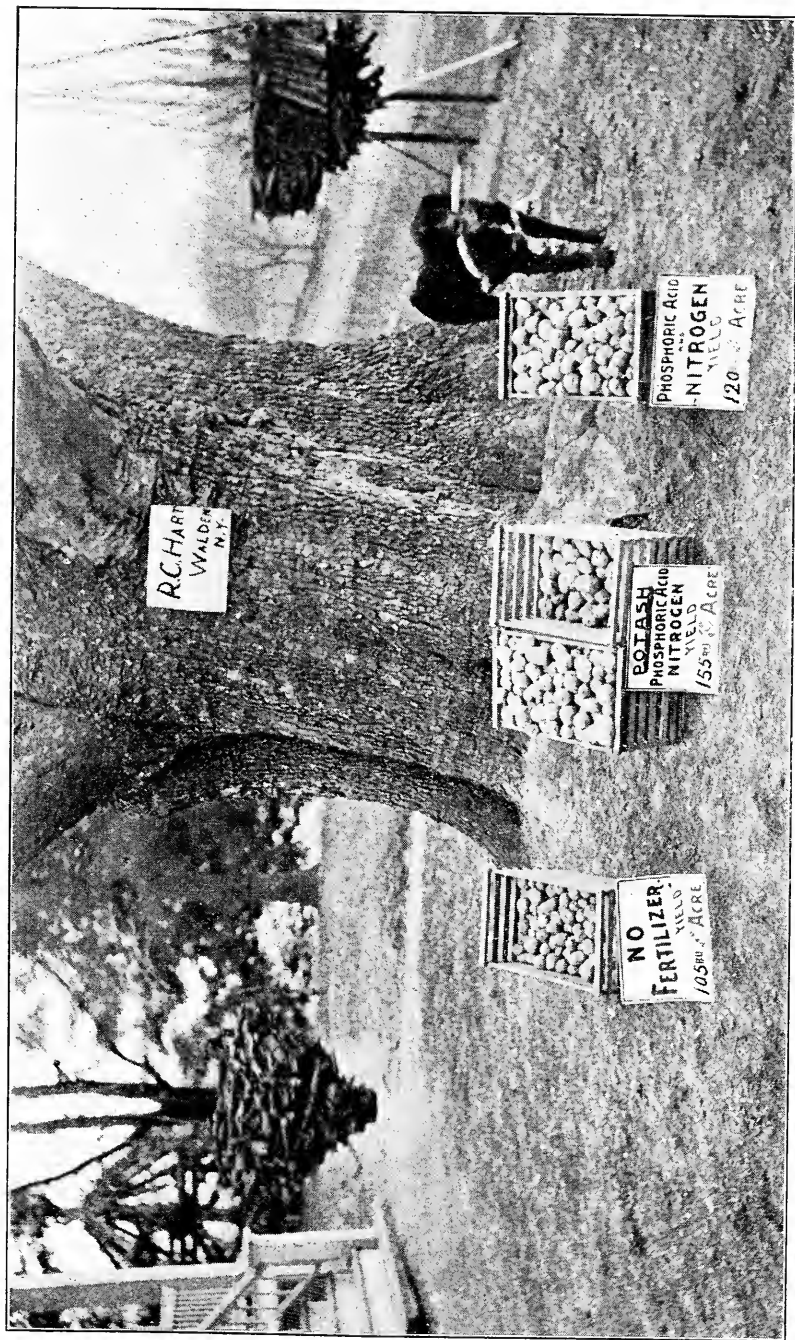
Plot No. 2. Complete Fertilizer (With Potash). Yield: 152.7 bushels per Acre.



Plot No. 3. Incomplete Fertilizer (No Potash). Yield: 139 bushels per Acre.

A satisfactory Potato Fertilizer should contain at least 10% of Potash.

TEST ON POTATOES BY R. C. HART, WALDEN, N. Y.



Plot No. 1
No Fertilizer

Yield: 105 Bushels per Acre

Increase from \$12.50 worth of Complete Fertilizer.....

Increase from \$4.50 worth of Sulphate of Potash.....

Plot No. 2

Complete Fertilizer (With Potash)

Yield: 155 Bushels per Acre

Plot No. 3

Incomplete Fertilizer (Without Potash)

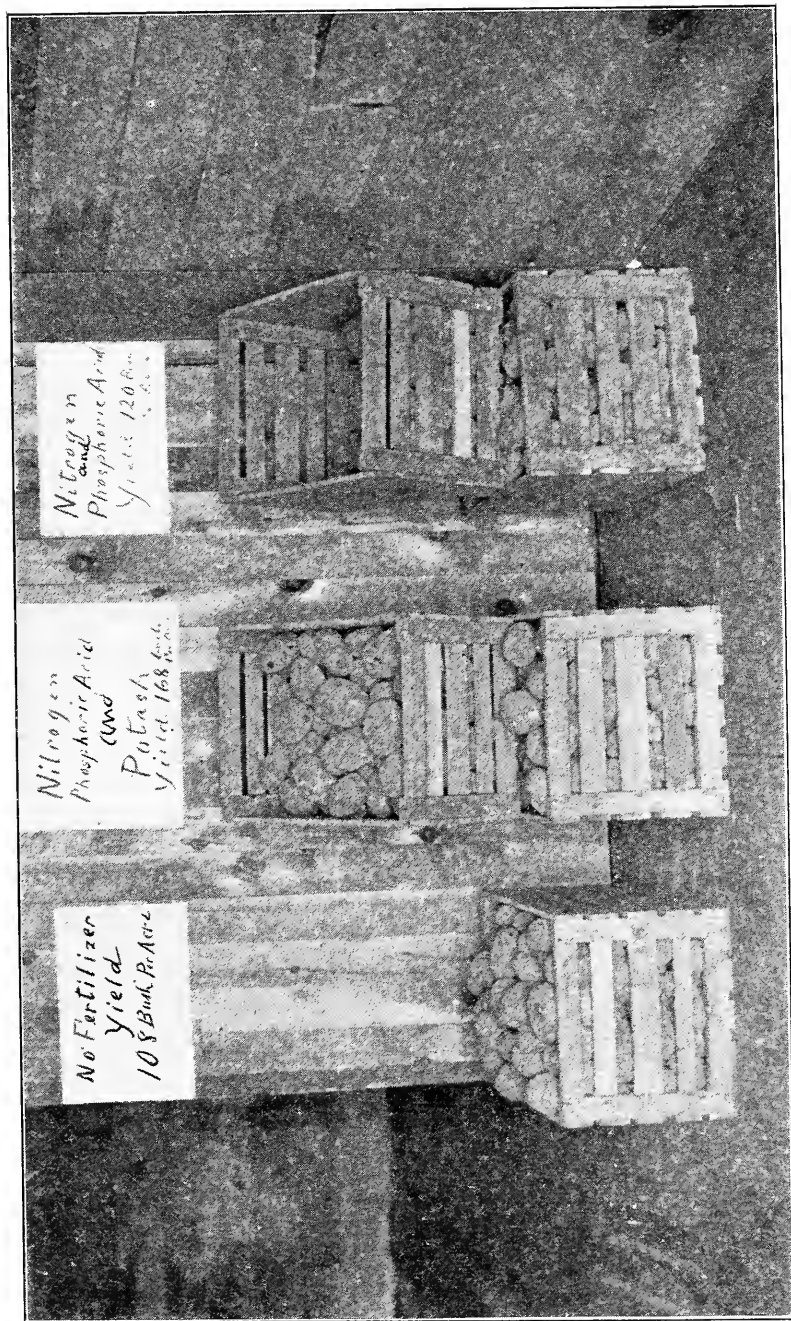
Yield: 120 Bushels per Acre

.....50 bushels potatoes.

.....35 bushels potatoes.

See that your Potato fertilizer contains at least 10% Potash.

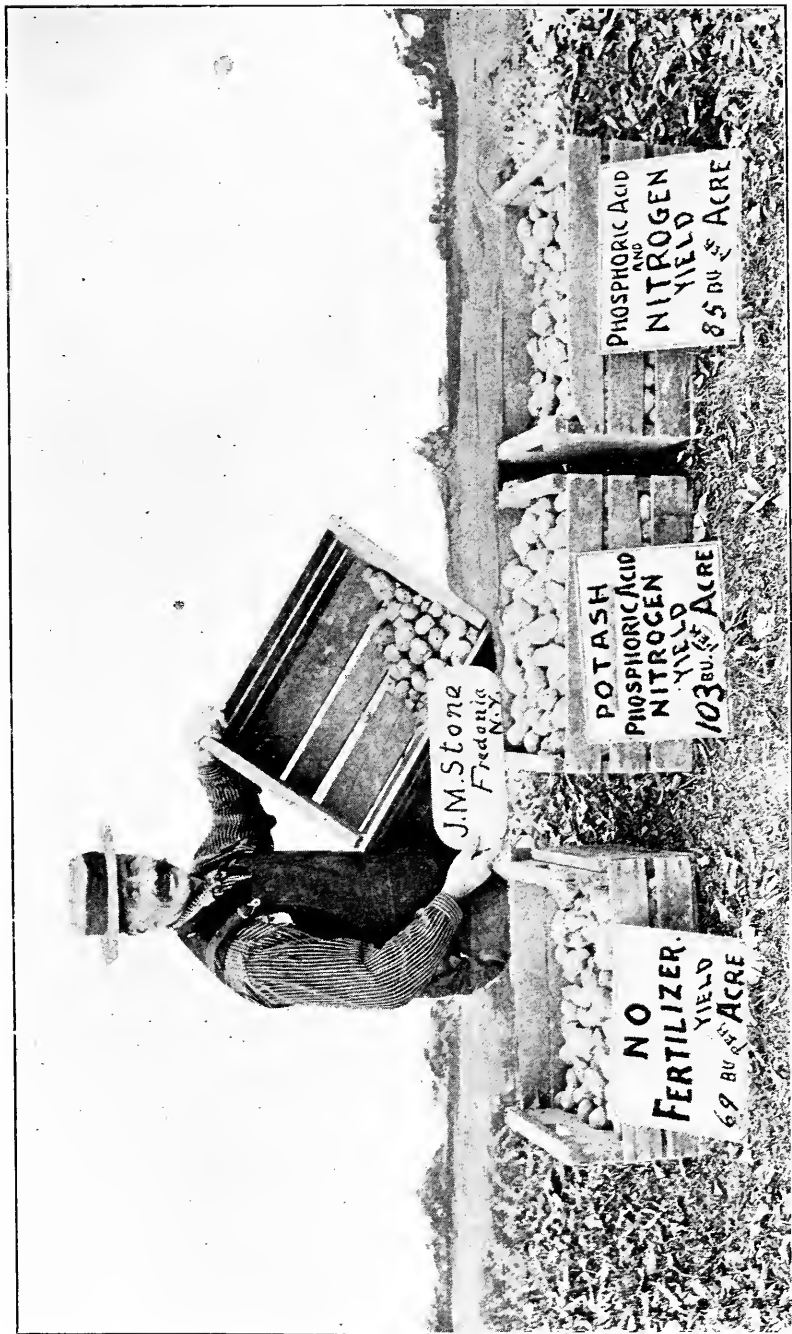
TEST ON POTATOES BY L. R. ROGERS, ALBION, N. Y.



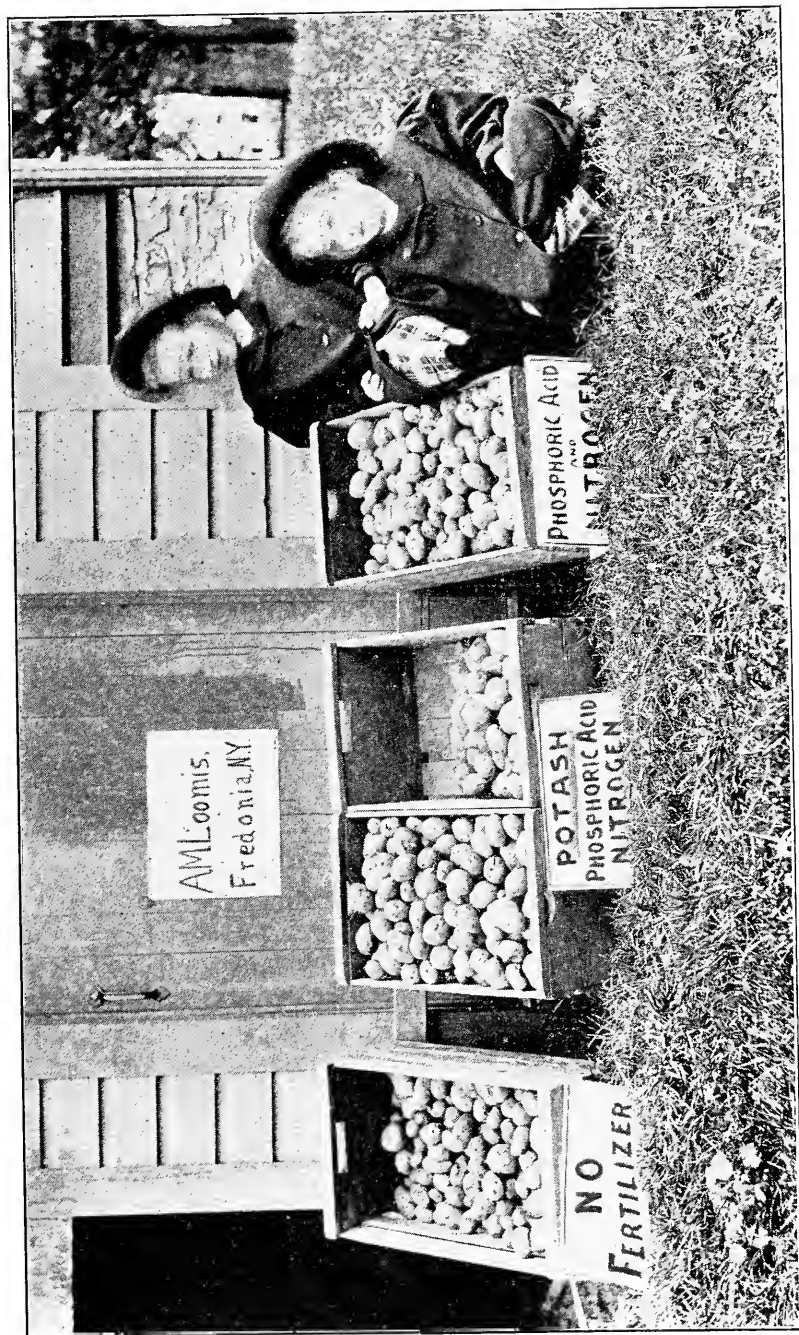
No Fertilizer Yield: 108 Bushels per Acre. Increase from \$12.50 worth of Complete Fertilizer	56 bushels potatoes.
Increase from \$2.75 worth of Sulphate of Potash.....	44 bushels potatoes.
Completely Fertilized (With Potash) Yield: 168 Bushels per Acre	
Incompletely Fertilized (No Potash) Yield: 120 Bushels per Acre	

See that your Potato fertilizer contains at least 10% of Potash.

TEST ON POTATOES BY J. M. STONE, FREDONIA, N. Y.

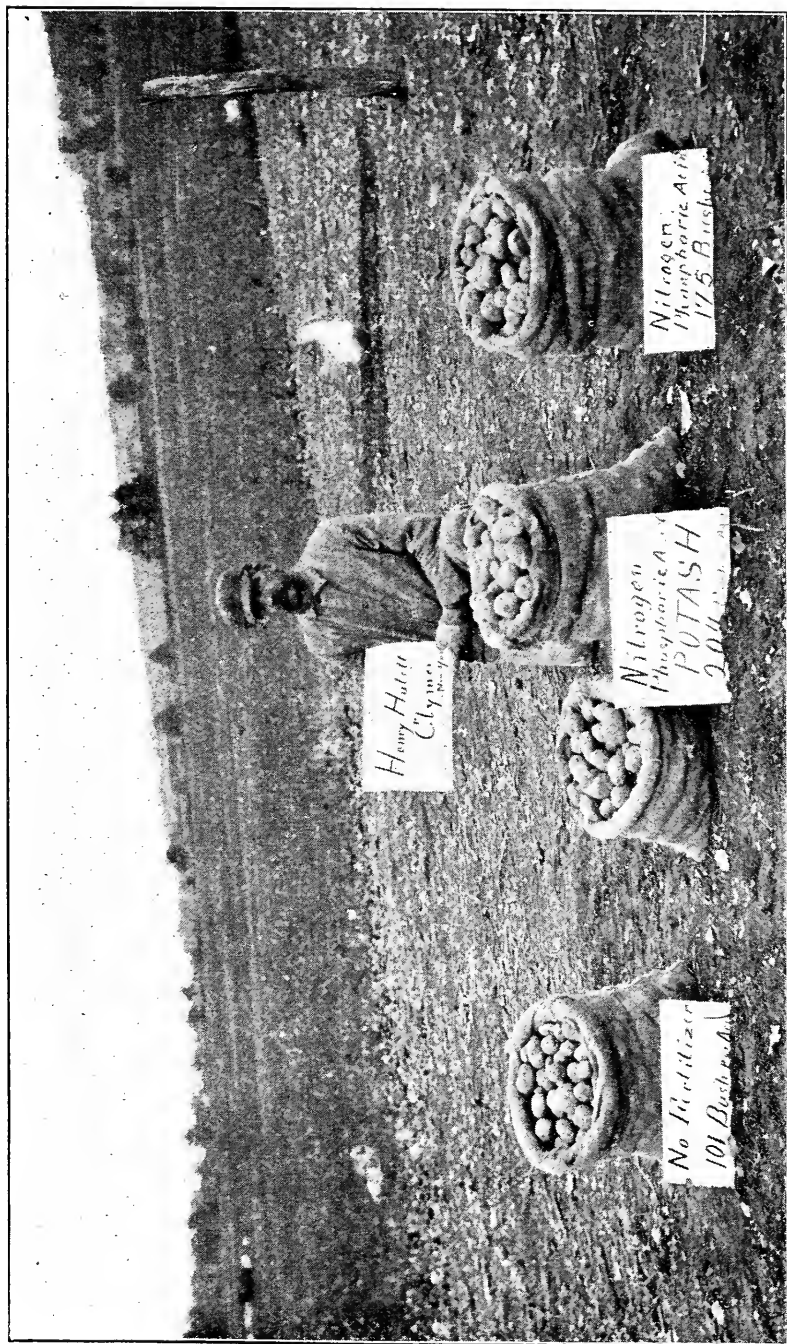


Plot No. 1		Plot No. 2		Plot No. 3	
No Fertilizer	Complete Fertilizer (With Potash)	Complete Fertilizer (Without Potash)		Incomplete Fertilizer (Without Potash)	
Yield: 69 Bushels per Acre	Yield: 103 Bushels per Acre	Yield: 85 Bushels per Acre		Yield: 85 Bushels per Acre	
Increase from \$12.50 worth of Complete Fertilizer.....	Increase from \$4.50 worth of Potash.....	.....34 bushels potatoes.		.....18 bushels potatoes.	
See that your fertilizer for Potatoes contains not less than 10% Potash.					



Plot No. 1	Plot No. 2	Plot No. 3
No Fertilizer	Complete Fertilizer (With Potash)	Incomplete Fertilizer (Without Potash)
Yield: 52 Bushels per Acre	Yield: 125 Bushels per Acre	Yield: 94 Bushels per Acre
Increase from \$14.00 worth of Complete Fertilizer.....		73 bushels potatoes.
Increase from \$5.50 worth of Sulphate of Potash.....		31 bushels potatoes.
See that your fertilizer for Potatoes contains at least 10% of Potash.		

TEST ON POTATOES BY HENRY HULETT, CLYMER, N. Y.



Plot No. 1	Plot No. 2	Plot No. 3
No Fertilizer	Complete Fertilizer (With Potash)	Incomplete Fertilizer (No Potash)
Yield: 101 Bushels per Acre	Yield: 204 Bushels per Acre	Yield: 175 Bushels per Acre
Increase from \$12.50 worth of Complete Fertilizer.....	103 bushels per acre.	103 bushels per acre.
Increase from \$2.75 worth of Sulphate of Potash.....	29 bushels per acre.	

See that your fertilizer for Potatoes contains not less than 10% Potash.



Plot No. 1
No Fertilizer

Yield: 105 Bushels per Acre

Increase from \$12.50 worth of Complete Fertilizer

Increase from \$2.75 worth of Sulphate of Potash

Plot No. 2

Complete Fertilizer (With Potash)

Yield: 150 Bushels per Acre

Plot No. 3

Incomplete Fertilizer (No Potash)

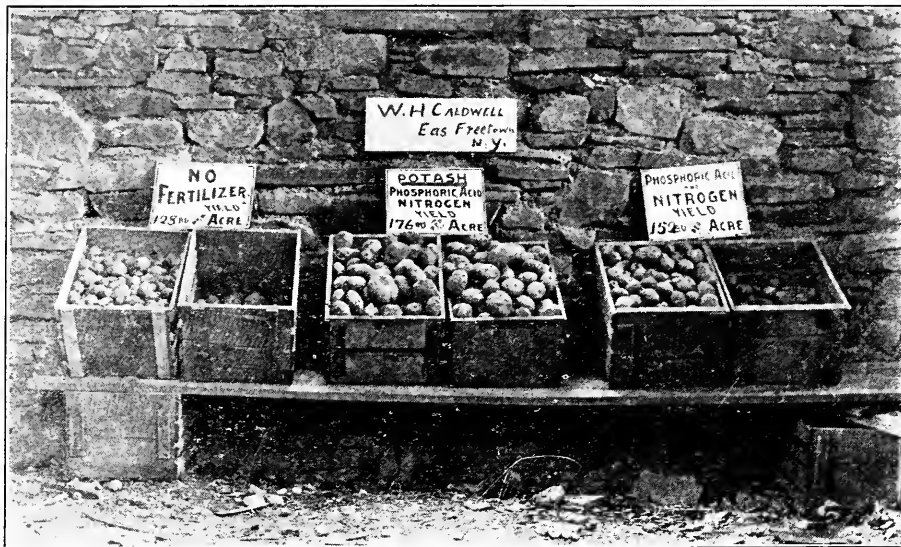
Yield: 130 Bushels per Acre

45 bushels potatoes

25 bushels potatoes.

See that your Potato fertilizer contains not less than 10% of Potash.

TEST ON POTATOES BY W. H. CALDWELL, EAST FREETOWN, N. Y.



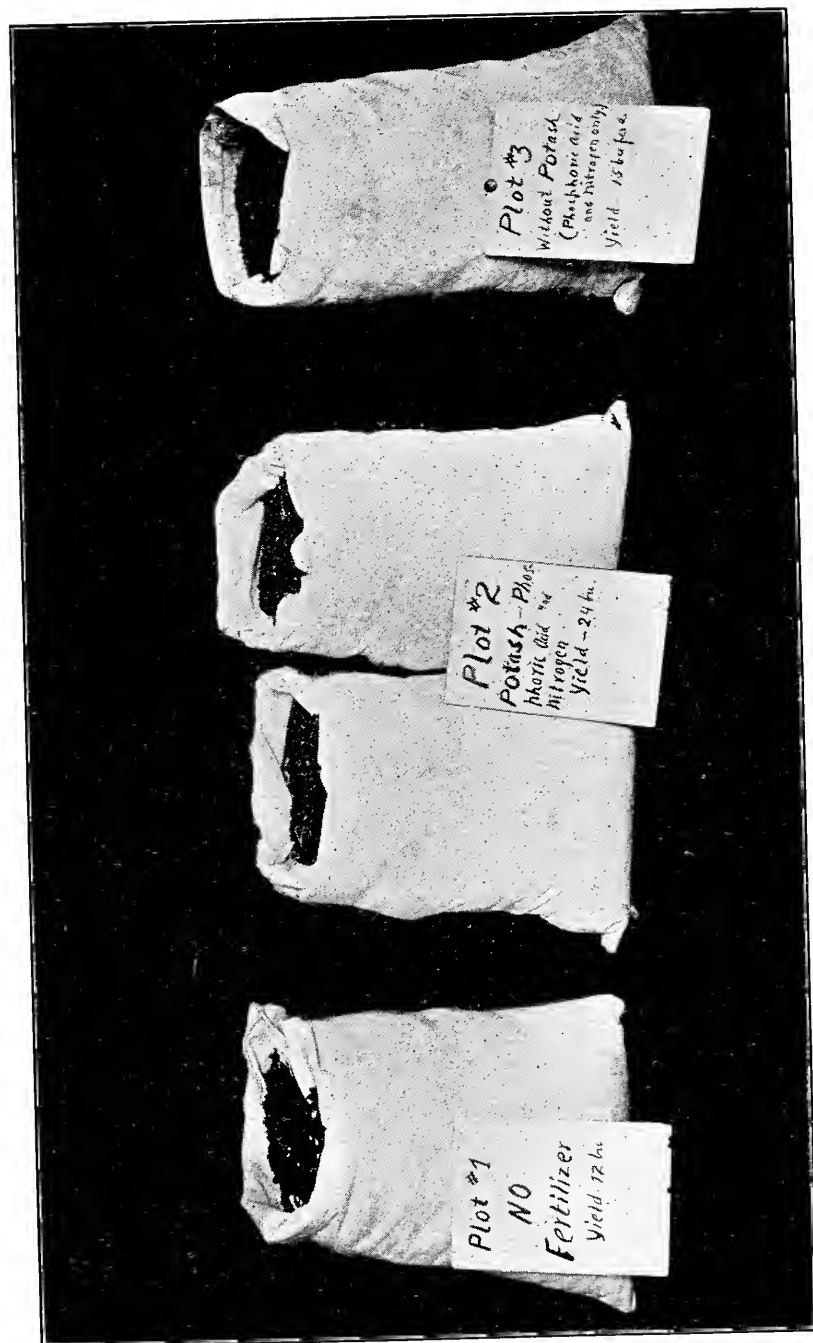
Plot No. 1 No Fertilizer.	Plot No. 2—Complete Fertilizer (With Potash).	Plot No. 3—Incomplete Fertilizer (Without Potash).
Yield: 128 Bushels per Acre.	Yield: 176 Bushels per Acre.	Yield: 152 Bushels per Acre.
Increase from \$4.50 worth of Sulphate of Potash 24 bushels potatoes.		

TEST ON CABBAGE BY D. L. BEARDSLEY, CORTLAND, N. Y.



Plot No. 3—Incomplete Fertilizer (No Potash). Yield: 24,135 pounds.	Plot No. 2—Complete Fertilizer (With Potash). Yield: 25,530 pounds.
Increase from \$2.75 worth of Muriate of Potash 1,795 pounds cabbage.	

TEST ON BUCKWHEAT BY J. A. FRALEIGH, RED HOOK, N. Y.



Plot No. 1	Plot No. 2	Plot No. 3
No Fertilizer	Complete Fertilizer (With Potash)	Incomplete Fertilizer (No Potash)
Yield: 12 Bushels per Acre	Yield: 24 Bushels per Acre	Yield: 15 Bushels per Acre
Increase from use of 120 pounds Muriate of Potash		9 bushels per acre.

TEST ON FLINT CORN BY D. L. BEARDSLEY, CORTLAND, N. Y.



Plot No. 1	Plot No. 2	Plot No. 3
No Fertilizer	Complete Fertilizer (With Potash)	Incomplete Fertilizer (Without Potash)
Yield: 45 Bushels per Acre	Yield: 90 Bushels per Acre	Yield: 75 Bushels per Acre
Increase from \$9.50 worth of Complete Fertilizer.....	.....	.....
Increase from \$2.25 worth of Muriate of Potash.....	.....	.....
		45 bushels corn. 15 bushels corn.

A good fertilizer for Corn should contain from 8 to 10% of Actual Potash.

TEST ON CORN BY S. B. BOWEN, SENECA FALLS, N. Y.



Increase from \$9.50 worth of Complete Fertilizer.....

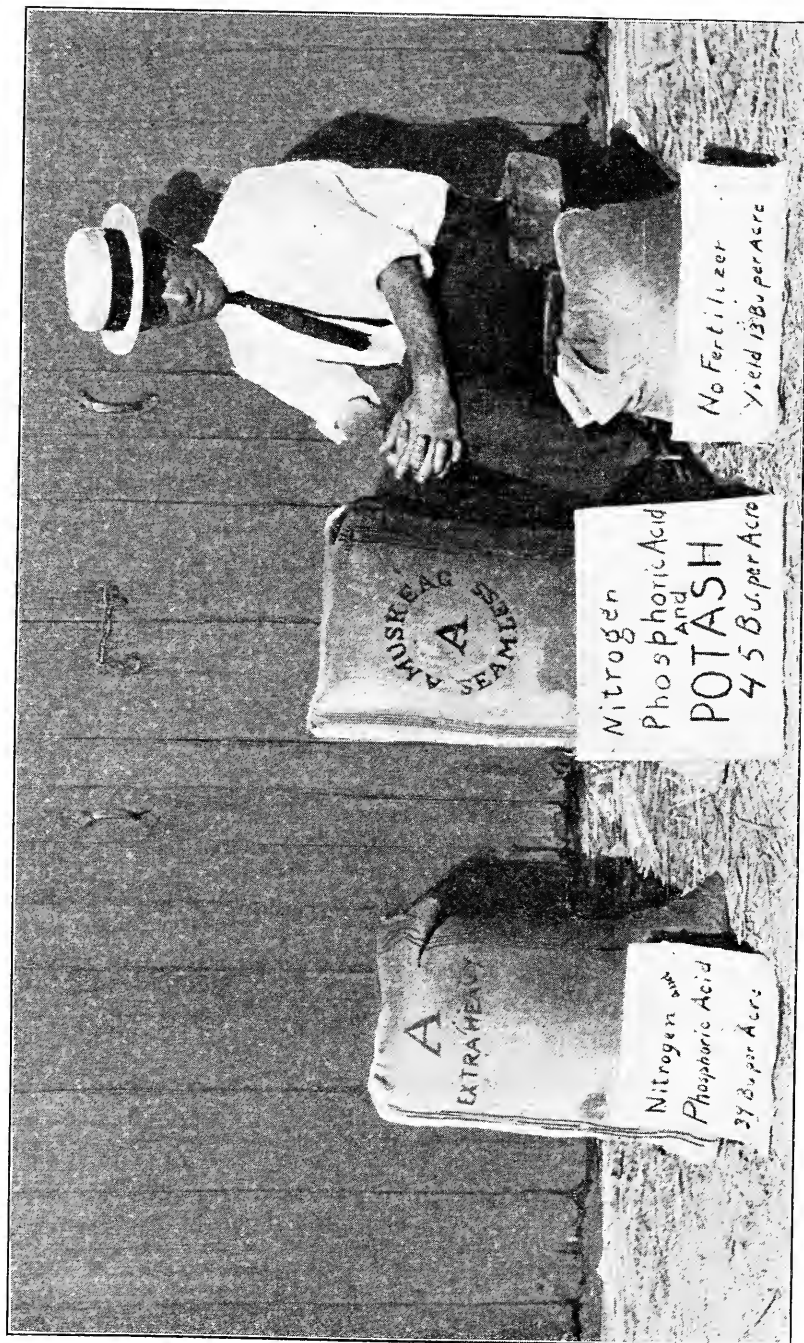
Increase from \$2.25 worth of Muriate of Potash

54 bushels.

42 bushels.

A good Corn fertilizer should contain at least 8 to 10% Actual Potash.

TEST ON WHEAT BY JAS. MORSE, LEVANNA, N. Y.



Incomplete Fertilizer (No Potash)
39 Bushels per Acre

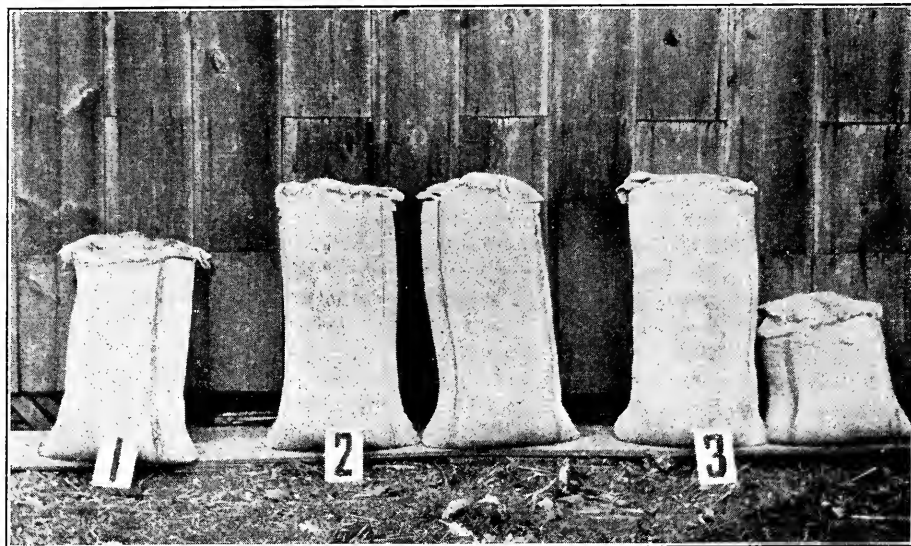
Complete Fertilizer (With Potash)
45 Bushels per Acre

No Fertilizer.
13 Bushels per Acre.

Increase from \$9.00 worth of Complete Fertilizer.....32 bushels.
Increase from \$2.25 worth of Muriate of Potash..... 6 bushels.

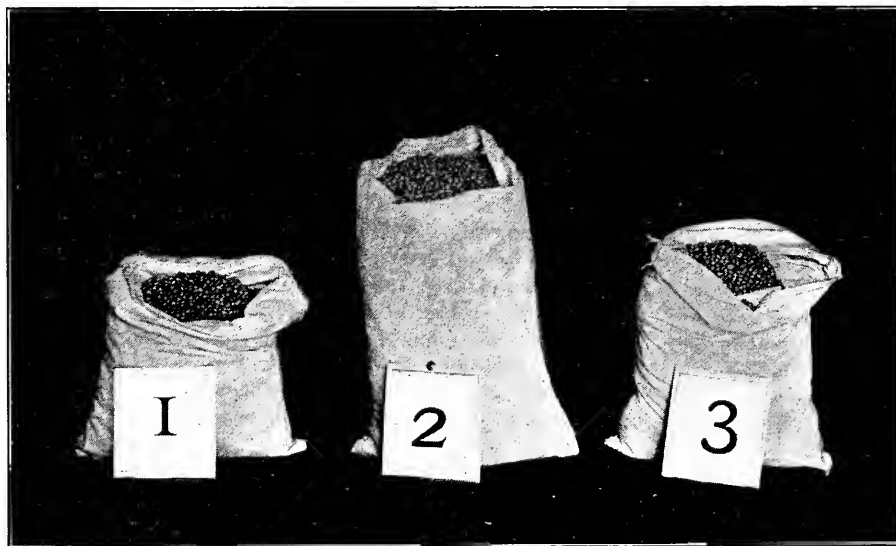
A good complete fertilizer for Wheat should supply 2% Nitrogen, 8% Available Phosphoric Acid and 6% Potash.

TEST ON OATS BY A. J. NORMAN, CHARLOTTE CENTER, N. Y.



Plot No. 1 No Fertilizer	Plot No. 2—Complete Fertilizer (With Potash)	Plot No. 3—Incomplete Fertilizer (No Potash)
Yield: 17 Bushels per Acre.	Yield: 42 Bushels per Acre.	Yield: 29 Bushels per Acre.
Increase from \$2.75 worth of Potash..... 12 bushels oats.		

TEST ON PEAS (FOR CANNING) BY E. C. ROOT, ALBION, N. Y.



Plot No. 1 No Fertilizer	Plot No. 2 Complete Fertilizer	Plot No. 3 Incomplete Fertilizer
Yield: 909 Pounds	Yield: 2,001 Pounds	Yield: 1,638 Pounds
Increase from \$12.50 worth of Complete Fertilizer..... 1,092 pounds peas.		
Increase from \$2.75 worth of Muriate of Potash..... 363 pounds peas.		

TEST ON BEANS BY H. O. HAKES, FANCHER, N. Y.



Plot No. 1. No Fertilizer. Yield: $6\frac{5}{8}$ Bushels per Acre.



Plot No. 2. Complete Fertilizer (With Potash).
Yield: $13\frac{1}{3}$ Bushels per Acre.

TEST ON BEANS BY H. O. HAKES, FANCHER, N. Y.



Plot No. 3. Incomplete Fertilizer.

Yield: $7\frac{2}{3}$ Bushels per Acre.

Increase from \$2.75 worth of Potash..... $5\frac{2}{3}$ bushels beans.

A good high-grade fertilizer for Beans and other garden or truck crop will contain at least 10% of Potash.



Plot No. 1	Plot No. 2	Plot No. 3
No Fertilizer	Complete Fertilizer (With Potash)	Incomplete Fertilizer (Without Potash)
Yield: 1,792 Pounds	Yield: 2,432 Pounds	Yield: 2,016 Pounds
Increase from Complete Fertilizer.....	.....	.....
Increase from \$2.75 worth of Sulphate of Potash.....	.....	.....
The value of potash in Grape Growing has been well established; the fertilizer should supply at least 10 to 12% actual potash.		

Copies of this booklet sent free on application to persons interested in farming.

OTHER IMPORTANT BOOKS ON AGRICULTURAL SUBJECTS:

- Principles of Profitable Farming,*
- Potash in Agriculture,*
- Farmers' Guide,*
- Farmers' Note Book,*
- Cotton Culture,*
- Tobacco Culture,*
- Strawberry Culture,*
- Tropical Planting,*
- Value of Swamp Lands,*
- Fertilizing Tobacco,*
- Sugar Cane Culture,*
- Sugar Beet Culture,*
- The Cow Pea*
- Plant Food,*
- Truck Farming,*
- Why the Fish Failed,*
- Stassfurt Industry,*
- Orange Culture.*

State which of the above publications you desire and it will be mailed to you free of charge.

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